

Reliable selectivity alternatives let you perform demanding HPLC applications with confidence

Agilent Pursuit and HC(2)/TC(2) column families

Agilent's Pursuit family, together with Agilent HC(2)/TC(2) columns, complement our ZORBAX LC column family with a variety of reliable selectivity alternatives.

The Pursuit family includes general-purpose C18 and C8 phases, as well as special Diphenyl and PFP phases; our HC(2)/TC(2) columns provide a simple, reliable choice for most routine applications.

Here are some of the advantages that set these columns apart:

- **High productivity:** Pursuit columns have a smaller surface area and larger pore size relative to other conventional columns. Available in 3 μm to 10 μm particle sizes.
- **Higher loadability:** Pursuit XRs columns give you the options of a larger surface area and a smaller pore size.
- **Confident analysis of aromatics:** Pursuit Diphenyl columns utilize strong dipole-dipole hydrogen bonding and pi-pi mechanisms for different selectivity with aromatic compounds. They are a dependable alternative to ZORBAX Phenyl phases, such as Eclipse Plus Phenyl-Hexyl or SB-Phenyl. Available in 3 μm to 10 μm particle sizes.
- **Reliable polar separations:** Pursuit PFP columns deliver excellent separation of polar (halogenated) analytes and positional isomers under standard reversed phase conditions. Available in 3 μm and 5 μm particle sizes.
- **Traditional selectivity options:** Agilent HC(2)/TC(2) columns provide a high carbon load, and are an ideal selectivity choice when a 5 μm particle size is needed.



A full range of columns for conventional HPLC methods

Pursuit XR columns feature a 100Å pore size and high surface area silica for good loadability of complex sample mixtures. They also have higher carbon loads than the Pursuit and ZORBAX families, should your method require it.

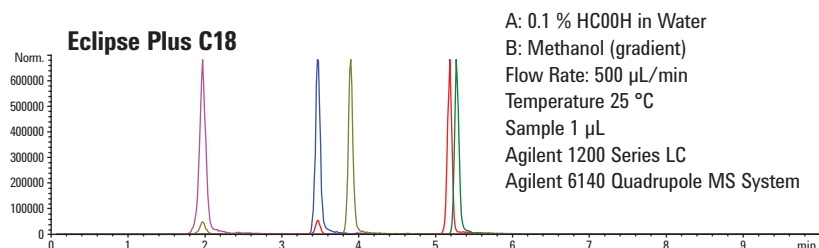
Pursuit XR Ultra columns are loaded using a special process that enables them to withstand higher backpressures than Pursuit XR columns.

More choices, more value

Agilent offers columns for routine HPLC analyses that call for a traditional 5 µm particle size. Like our Pursuit column family, they accommodate a wide pH range, as well as all common mobile phases.

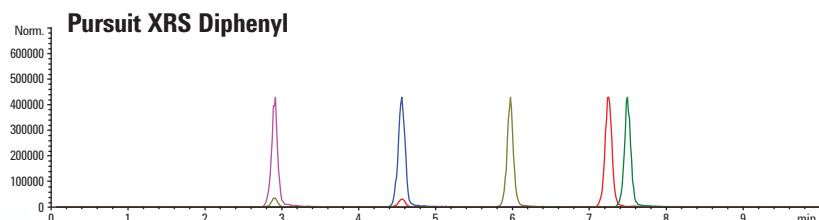
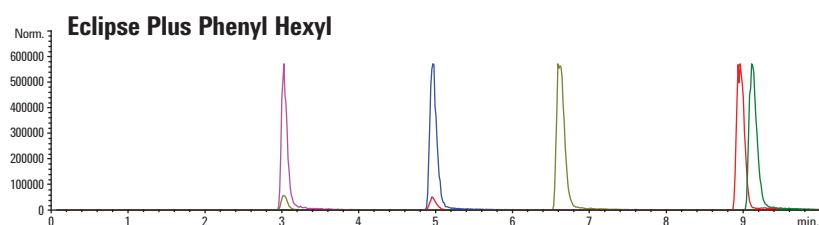
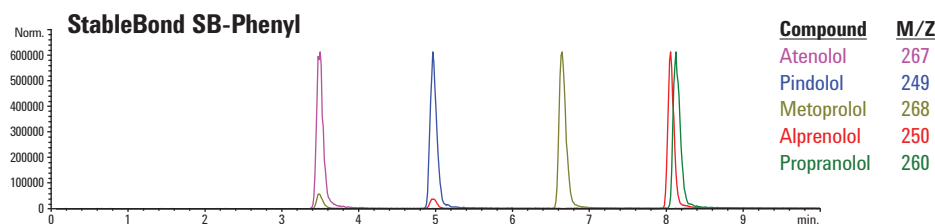
- **Agilent TC-C18(2) columns** are an excellent choice when you need to analyze mixtures of polar and non-polar compounds, including strong basic compounds.
- **Agilent HC-C18(2) columns** are a high-value, highly retentive option with a carbon load of 17%. They also provide superior peak shape for basic compounds.

Beta Blockers with Methanol Mobile Phase



ESI Positive Mode
Scan Cycle Time 1.68 sec/cycle
Drying Gas Flow: 12 l/min
Nebulizer Pressure: 35 psig
Drying Gas Temperature: 350 °C
Capillary Voltage: 3000 V

Gradient:	
Time	% B
0	5
15	95
18	95
19	5
25	5



Change in elution order only on C18 with acetonitrile. Improved peak spacing on Diphenyl with methanol. Note: Increased retention for all Phenyl columns using methanol.



1260 Infinity LC

Learn more at www.agilent.com/chem/infinity

Ordering Information

Choose from a range of alternative selectivities for your specific application

Pursuit Columns

Size (mm)	Particle Size (µm)	Pursuit C18	Pursuit C8	Pursuit Diphenyl	Pursuit PFP	Pursuit PAH
4.6 x 150	5	A3000150X046	A3030150X046	A3040150X046	A3050150X046	A7000150X046
4.6 x 100	5	A3000100X046	A3030100X046		A3050100X046	
4.6 x 50	5	A3000050X046	A3030050X046	A3040050X046		
4.6 x 150	3	A3001150X046	A3031150X046	A3041150X046	A3051150X046	
4.6 x 100	3	A3001100X046	A3031100X046	A3041100X046	A3051100X046	A7001100X046
4.6 x 50	3	A3001050X046		A3041050X046	A3051050X046	
3.0 x 150	5	A3000150X030			A3050150X030	
3.0 x 100	5	A3000100X030				
3.0 x 50	5	A3000050X030				
3.0 x 150	3	A3001150X030		A3041150X030	A3051150X030	
3.0 x 100	3	A3001100X030		A3041100X030	A3051100X030	A7001100X030
3.0 x 50	3	A3001050X030		A3041050X030		
2.0 x 150	5	A3000150X020	A3030150X020	A3040150X020		
2.0 x 100	5	A3000100X020		A3040100X020	A3050100X020	A7001100X020
2.0 x 50	5	A3000050X020	A3030050X020	A3040050X020	A3050050X020	
2.0 x 150	3	A3001150X020	A3031150X020	A3041150X020	A3051150X020	
2.0 x 100	3	A3001100X020	A3031100X020	A3041100X020	A3051100X020	
2.0 x 50	3	A3001050X020	A3031050X020	A3041050X020	A3051050X020	

Pursuit XRs Columns

Size (mm)	Particle Size (µm)	Pursuit XRs C18	Pursuit XRs C8	Pursuit XRs Diphenyl	Pursuit XRs Si
4.6 x 150	5	A6000150X046	A6010150X046	A6020150X046	
4.6 x 100	5	A6000100X046	A6010100X046	A6020100X046	
4.6 x 50	5	A6000050X046		A6020050X046	
4.6 x 150	3	A6001150X046	A6010150X046	A6021150X046	
4.6 x 100	3	A6001100X046	A6011100X046	A6021100X046	A6005100X046
4.6 x 50	3	A6001050X046	A6011050X046	A6021050X046	
3.0 x 150	5	A6000150X030		A6021150X030	
3.0 x 100	5	A6000100X030			
3.0 x 50	5	A6000050X030			
3.0 x 150	3	A6001150X030		A6021150X030	
3.0 x 100	3	A6001100X030		A6021100X030	
3.0 x 50	3	A6001050X030			
2.0 x 150	5	A6000150X020	A6010150X020	A6020150X020	
2.0 x 100	5	A6000100X020			
2.0 x 50	5	A6000050X020		A6020050X020	
2.0 x 150	3	A6001150X020	A6011150X020	A6021150X020	
2.0 x 100	3	A6001100X020	A6011100X020	A6021100X020	
2.0 x 50	3	A6001050X020	A6011050X020	A6021050X020	A6005050X020

HC-C18(2) and TC-C18(2) Columns

Column Description	Size (mm)	Particle Size (µm)	Part Number
HC-C18(2)	4.6 x 250	5	588905-902
HC-C18(2)	4.6 x 150	5	588915-902
TC-C18(2)	4.6 x 250	5	588925-902
TC-C18(2)	4.6 x 150	5	588935-902
HC-C18(2) guards, 2 /pk.	4.6 x 12.5	5	520518-904
TC-C18(2) guards, 2/pk.	4.6 x 12.5	5	520518-905
Guard hardware kit*			820888-901

*This kit can also be used with ZORBAX HPLC columns and guard cartridges.

Pursuit XRs Ultra HPLC Columns

Size (mm)	Particle Size (µm)	Pursuit XRs Ultra C18	Pursuit XRs Ultra C8	Pursuit XRs Ultra Diphenyl
3.0 x 150	2.8	A7501150X030	A7511150X030	
3.0 x 100	2.8	A7501100X030		
2.0 x 150	2.8	A7501150X020		
2.0 x 100	2.8	A7501100X020	A7511100X020	A7521100X020
2.0 x 50	2.8	A7501050X020	A7511050X020	A7521050X020

For a full list of available configurations, or to order now, go to www.agilent.com/chem/pursuit

Agilent Chemistries: Keeping you in command of your analyses

Agilent designs and manufactures columns to suit most techniques for small molecule, large molecule, and synthetic polymer analysis, allowing you to scale methods from conventional 5 μm ... to “Fast LC” sub-2 μm ... to prep.

You also have access to Agilent’s extensive applications library for faster method development – plus worldwide technical support, speedy problem resolution, and our global infrastructure and delivery network.

Agilent’s meticulous production oversight ensures column consistency and performance. With more than 40 years of experience in producing polymers and silica chemistries, our team is committed to continuously developing new column advances that make you most productive.

Column Specifications

Bonded Phase	Pore Size	Surface Area	pH Range	Endcapped	Carbon Load
Pursuit C18	200Å	200 m ² /g	2.0-9.0	Yes	12.9%
Pursuit C8	200Å	200 m ² /g	2.0-9.0	Yes	7.4%
Pursuit Diphenyl	200Å	200 m ² /g	2.0-8.0	Yes	7.3%
Pursuit PFP	200Å	200 m ² /g	2.0-9.0	Yes	6.3%
Pursuit PAH	200Å	200 m ² /g	2.0-9.0	Yes	
Pursuit XRs C18	100Å	440 m ² /g	2.0-9.0	Yes	22%
Pursuit XRs C8	100Å	440 m ² /g	2.0-9.0	Yes	15%
Pursuit XRs Diphenyl	100Å	440 m ² /g	2.0-8.0	Yes	14.6%
Pursuit XRs Si	100Å	440 m ² /g	2.0-9.0	No	
Pursuit XRs Ultra C18	100Å	440 m ² /g	2.0-9.0	Yes	23.2%
Pursuit XRs Ultra C8	100Å	440 m ² /g	2.0-9.0	Yes	15%
Pursuit XRs Ultra Diphenyl	100Å	440 m ² /g	2.0-9.0	Yes	14.6%
TC-C18(2)	170Å	290 m ² /g	2.0-9.0	Yes	12%
HC-C18(2)	170Å	290 m ² /g	2.0-9.0	Yes	17%

For more information

To learn more about Agilent Pursuit columns, visit us online at www.agilent.com/chem/pursuit

In the U.S. and Canada, call toll free:
1-800-227-9770, option 3, then option 3 again

In other countries, please call your local Agilent Representative or Agilent Authorized Distributor – see www.agilent.com/chem/contactus

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